

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (476) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

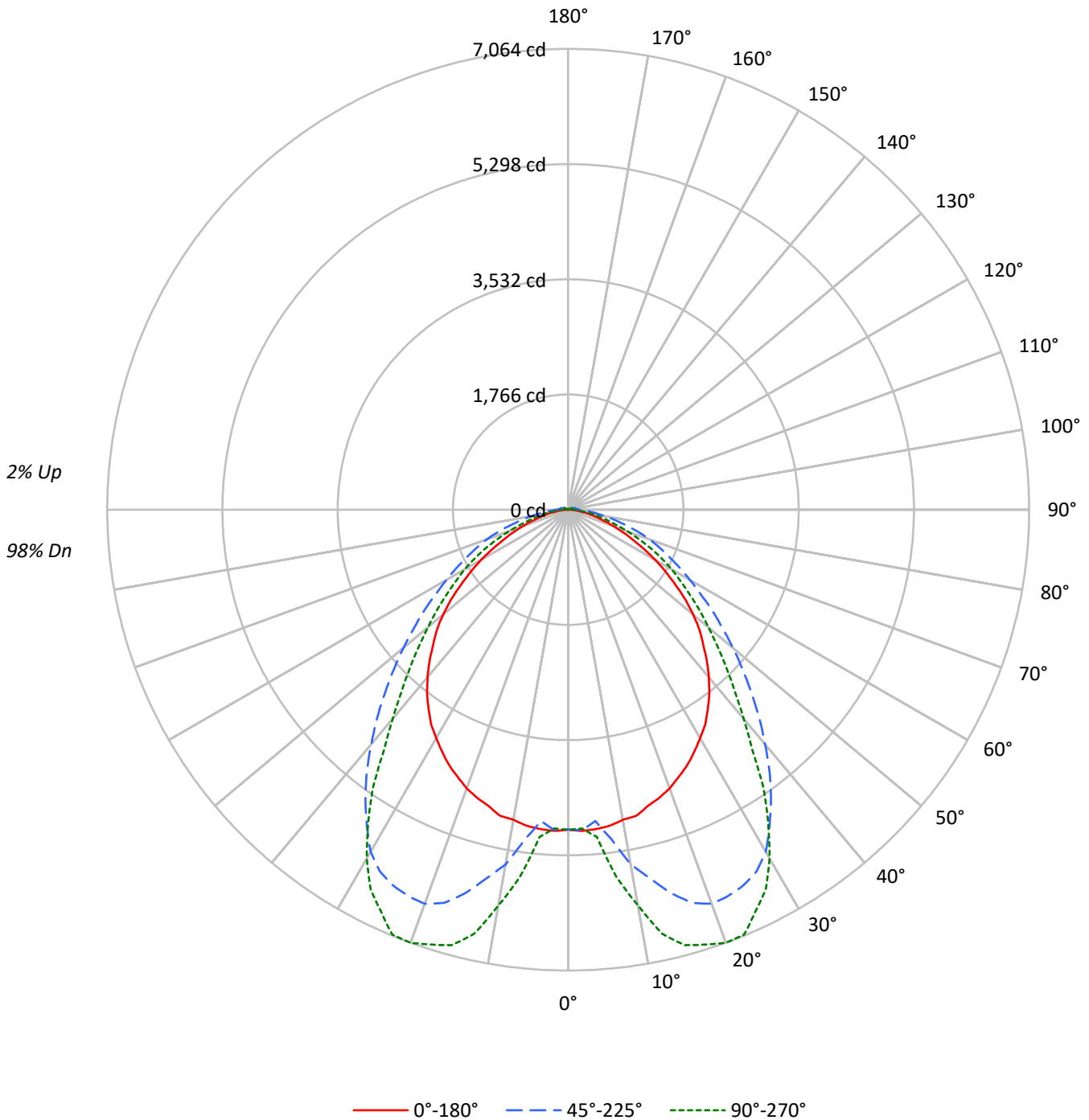
Lumens per Lamp: N/A  
Luminaire Lumens: 15990.9 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 130.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#  
CATALOG NUMBER: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	83
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	71
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	60
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	52
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26395	26395	26395
5°	26458	24080	24681
10°	26206	26220	27927
15°	25957	27602	29339
20°	25692	28115	28398
25°	25221	27019	26122
30°	24607	25233	22919
35°	23896	22306	18882
40°	22847	19239	14840
45°	21497	16323	12041
50°	20052	13717	9827
55°	17884	11397	8029
60°	15612	9369	6525
65°	12998	7678	5054
70°	10607	6214	3589
75°	8400	4539	2390
80°	6367	3078	1513
85°	4359	1866	815



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.7	3.1
10°-20°	1674.5	10.5
20°-30°	2745.9	17.2
30°-40°	3104.0	19.4
40°-50°	2796.6	17.5
50°-60°	2203.5	13.8
60°-70°	1515.6	9.5
70°-80°	845.1	5.3
80°-90°	343.0	2.1
90°-100°	130.5	0.8
100°-110°	72.8	0.5
110°-120°	39.8	0.2
120°-130°	13.6	0.1
130°-140°	9.4	0.1
140°-150°	5.6	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4911.1	30.7
0°-40°	8015.0	50.1
0°-60°	13015.1	81.4
0°-90°	15718.7	98.3
90°-120°	243.1	1.5
90°-150°	271.7	1.7
90°-180°	272.0	1.7
0°-180°	15990.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4904	4904	4904	4904	4904	
5°	4913	4933	4789	5002	5035	466
15°	4704	5063	6083	6788	6912	1330
25°	4319	5222	6355	6827	6792	1987
35°	3730	4704	5418	5339	5222	2329
45°	2927	3656	3969	3667	3428	2262
55°	2005	2529	2690	2455	2281	1799
65°	1100	1588	1703	1562	1390	1104
75°	459	968	911	729	616	496
85°	100	483	324	241	189	113
90°	4	309	178	117	83	7
95°	0	215	133	89	63	0
105°	0	54	98	85	65	0
115°	0	41	17	65	74	0
125°	2	30	15	13	0	2
135°	2	17	15	15	0	2
145°	2	9	11	13	0	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4904.3	4904.3	4904.3	4904.3	4904.3
2.5°	4928.2	4919.5	4915.2	4956.5	4891.2
5°	4913.0	4932.6	4789.0	5002.2	5034.8
7.5°	4886.9	4830.3	5097.9	5567.6	5680.7
10°	4826.0	4765.1	5517.6	6037.4	6161.4
12.5°	4808.6	4889.1	5787.3	6485.4	6659.4
15°	4704.2	5063.1	6083.1	6787.7	6911.7
17.5°	4632.4	5187.0	6320.1	6903.0	6990.0
20°	4545.4	5224.0	6428.9	6968.2	7063.9
22.5°	4430.2	5261.0	6409.3	6970.4	7048.7
25°	4319.3	5221.8	6354.9	6826.9	6792.1
27.5°	4184.4	5134.8	6250.5	6609.4	6559.4
30°	4043.0	5041.3	6054.8	6257.0	6172.2
32.5°	3906.0	4902.1	5741.6	5802.5	5704.6
35°	3729.9	4704.2	5417.6	5339.3	5221.8
37.5°	3551.5	4471.5	5071.8	4865.1	4630.3
40°	3351.4	4208.3	4693.3	4451.9	4180.1
42.5°	3144.8	3927.8	4334.5	4040.9	3779.9
45°	2927.4	3655.9	3969.1	3666.8	3427.6
47.5°	2731.6	3379.7	3625.5	3314.5	3105.7
50°	2498.9	3092.6	3299.3	2999.1	2805.6
52.5°	2264.0	2816.4	2975.2	2712.0	2535.9
55°	2005.2	2529.4	2690.3	2455.4	2281.4
57.5°	1768.2	2274.9	2401.0	2216.2	2040.0
60°	1542.0	2020.4	2153.1	1976.9	1831.2
62.5°	1309.3	1800.8	1926.9	1772.5	1609.4
65°	1100.5	1587.6	1702.9	1561.5	1389.7
67.5°	915.6	1407.1	1511.5	1322.3	1159.2
70°	741.6	1246.2	1318.0	1107.0	959.1
72.5°	587.2	1096.1	1120.0	900.4	769.9
75°	458.9	967.8	911.3	728.6	615.5
77.5°	341.5	854.7	735.1	578.5	482.8
80°	247.9	741.6	578.5	441.5	371.9
82.5°	171.8	611.1	443.7	332.8	274.0
85°	100.0	482.8	324.1	241.4	189.2
87.5°	37.0	391.5	237.1	163.1	126.1
90°	4.3	308.8	178.3	117.4	82.6
92.5°	2.2	261.0	147.9	97.9	67.4
95°	0.0	215.3	132.7	89.2	63.1
97.5°	0.0	169.6	121.8	87.0	63.1
100°	0.0	110.9	113.1	82.6	60.9
102.5°	0.0	63.1	106.6	82.6	63.1
105°	0.0	54.4	97.9	84.8	65.2
107.5°	0.0	50.0	87.0	89.2	69.6
110°	0.0	47.8	56.5	91.3	73.9



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-16-N-RS-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.5	21.7	93.5	78.3
115°	0.0	41.3	17.4	65.2	73.9
117.5°	0.0	39.1	17.4	45.7	47.8
120°	2.2	34.8	17.4	13.0	13.0
122.5°	2.2	32.6	15.2	13.0	0.0
125°	2.2	30.4	15.2	13.0	0.0
127.5°	2.2	26.1	15.2	15.2	0.0
130°	2.2	23.9	15.2	13.0	0.0
132.5°	2.2	21.7	15.2	15.2	0.0
135°	2.2	17.4	15.2	15.2	0.0
137.5°	2.2	15.2	13.0	15.2	0.0
140°	2.2	13.0	13.0	15.2	0.0
142.5°	2.2	10.9	13.0	15.2	0.0
145°	2.2	8.7	10.9	13.0	0.0
147.5°	2.2	6.5	10.9	13.0	0.0
150°	2.2	6.5	8.7	13.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)